iiyama
Vision&Technology

USER MANUAL

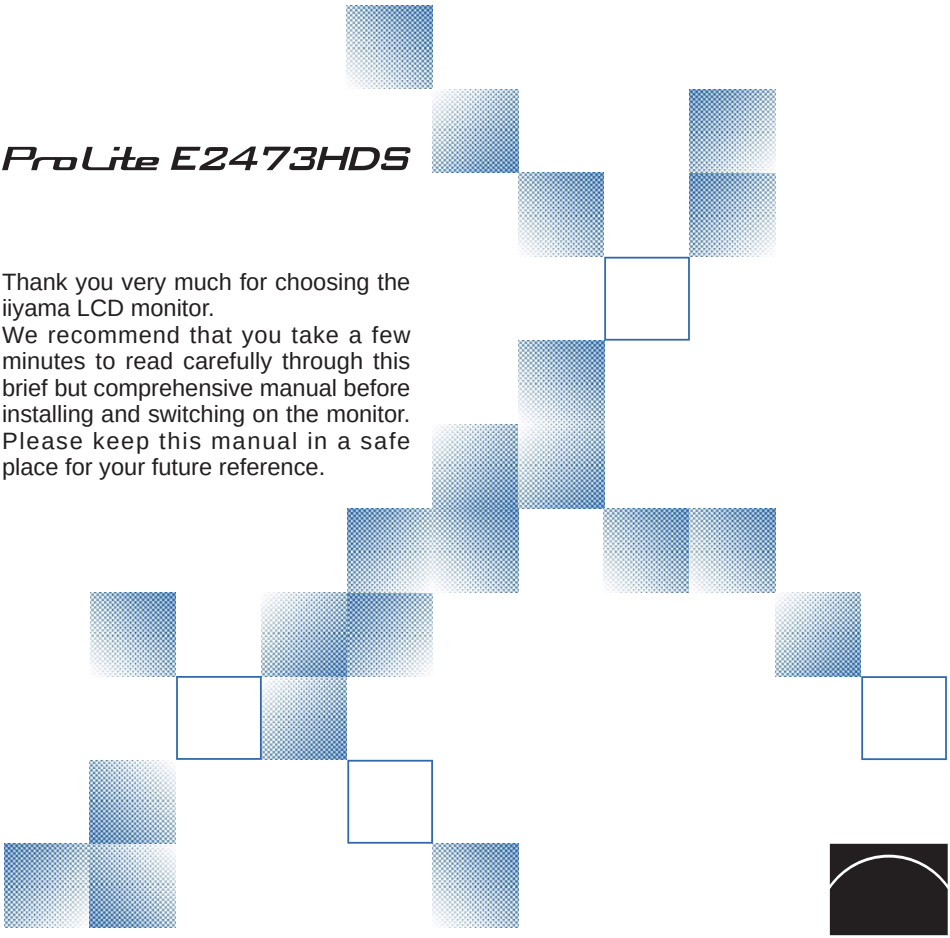
ProLite

LCD Monitor

ENGLISH

ProLite E2473HDS

Thank you very much for choosing the iiyama LCD monitor.
We recommend that you take a few minutes to read carefully through this brief but comprehensive manual before installing and switching on the monitor. Please keep this manual in a safe place for your future reference.



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iiyama | Servicecard

Dear user, we congratulate you on the purchase of your iiyama LCD.

For details on warranty and locally used pixel policies that apply directly after installation of your product please check the iiyama website.

To report a fault, please contact your local support centre found at www.iiyama.com/service

Things to check before you call the iiyama information line

- if the power cable is connected securely and turned on?
- if the display has been turned on?
- if the signal cable is connected securely and the correct input selected?
- if the computer has been restarted with the display connected?
- if the graphics card is correctly installed with the latest drivers possible?
- if the correct native resolution has been selected via 'Display Properties'?
- If the R/G/B signal configuration is correct?
- if the displays On Screen Menu is shown?
- if the correct brightness and contrast settings have been set?
- if given display tolerances and compatibility have been considered?
- if via the On Screen Menu you have performed a Factory Reset/Recall?

Before reporting the screen defect, please prepare the following information/evidence:

- model number *
- purchase receipt and serial number *
- name and address for collection
- telephone/fax number, for availability during the day
- convenient collection date (date, time)
- short description of the defect

Important Note:

If there is no fault found in the collected equipment after inspection, the transferring party shall incur charges for transport and administration.

If you have checked all of the above and there is still no picture, call our information line for assistance in your country.

* see the identification plate on the back of the case.

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Congratulations!

This display is designed for both you and the planet!

The display you have just purchased carries the TCO Certified label. This ensures that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on the climate and our natural environment.

TCO Certified is a third party verified program, where every product model is tested by an accredited impartial test laboratory. TCO Certified represents one of the toughest certifications for displays worldwide.

Some of the Usability features of the TCO Certified for displays:

- Visual ergonomics for good image quality is tested to ensure top performance and reduce sight and strain problems. Important parameters are luminance, contrast, resolution, black level, gamma curve, colour and luminance uniformity and colour rendering
- Products are tested according to rigorous safety standards at impartial laboratories
- Electric and magnetic fields emissions as low as normal household background levels
- Low acoustic noise emissions (When applicable)

Some of the Environmental features of the TCO Certified for displays:

- The brand owner demonstrates corporate social responsibility and has a certified environmental management system (EMAS or ISO 14001)
- Very low energy consumption both in on- and standby mode minimize climate impact
- Restrictions on chlorinated and brominated flame retardants, plasticizers, plastics and heavy metals such as cadmium, mercury and lead (RoHS compliance)
- Both product and product packaging is prepared for recycling
- The brand owner offers take-back options

The requirements can be downloaded from our web site. The requirements included in this label have been developed by TCO Development in co-operation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labeling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world. About 50% of all displays worldwide are TCO certified.

For more information, please visit
www.tcodevelopment.com

Technology for you and the planet

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This LCD monitor complies with the requirements of the EC Directive 2004/108/EC “EMC Directive” , 2006/95/EC “Low Voltage Directive” and 2009/125/EC “ErP Directive”.
The electro-magnetic susceptibility has been chosen at a level that gives correct operation in residential areas, business and light industrial premises and small-scale enterprises, inside as well as outside of the buildings. All places of operation are characterised by their connection to the public low voltage power supply system.

IIYAMA CORPORATION: Breguetlaan 8, 1438BC Oude Meer The Netherlands

For displays with glossy bezels the user should consider the placement of the display as the bezel may cause disturbing reflections from surrounding light and bright surfaces.

We recommend recycling of used product. Please contact your dealer or iiyama service center. Recycle information is obtained via the Internet, using the address:
http://www.iiyama.com
You can access the Web page of different countries from there.

- We reserve the right to change specifications without notice.
- All trademarks used in this user manual are the property of their respective owners.
- As an ENERGY STAR® Partner, iiyama has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

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FOR YOUR SAFETY

WARNING

If you notice any abnormal phenomena such as smoke, strange sounds or fumes, unplug the monitor and contact your dealer or iiyama service center immediately. Further use may be dangerous and can cause fire or electric shock.

High voltage circuits are inside the monitor. Removing the cabinet may expose you to the danger of fire or electric shock.

Do not put any solid objects or liquids such as water into the monitor. In case of an accident, unplug your monitor immediately and contact your dealer or iiyama service center. Using the monitor with any object inside may cause fire, electric shock or damage.

The monitor may cause an injury if it falls or is dropped.

Do not use where water may be splashed or spilt onto the monitor as it may cause fire or electric shock.

Be sure to operate the monitor only with the specified power supply. Use of an incorrect voltage will cause malfunction and may cause fire or electric shock.

Do not pull or bend the power cable and signal cable. Do not place the monitor or any other heavy objects on the cables. If damaged, the cables may cause fire or electric shock.

It is advisable not to operate the monitor during a heavy thunder storm as the continual breaks in power may cause malfunction. It is also advised not to touch the plug in these circumstances as it may cause electric shock.

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CAUTION

Do not install the monitor where sudden temperature changes may occur, or in humid, dusty or smoky areas as it may cause fire, electric shock or damage. You should also avoid areas where the sun shines directly on the monitor.

The monitor may topple and cause injury if not suitably located. Please also ensure that you do not place any heavy objects on the monitor, and that all cables are routed such that children may not pull the cables and possibly cause injury.

Ventilation slots are provided to keep the monitor from overheating. Covering the slots may cause fire. To allow adequate air circulation, place the monitor at least 10 cm (or 4 inches) from any walls.
Do not remove the tilt stand when operating the monitor. Ventilation slots on the back of the cabinet will be blocked and the monitor may overheat if the stand is removed. This may cause fire or damage. Operating the monitor on its back, side, upside down or on a carpet or any other soft material may also cause damage.

When you move the monitor, turn off the power switch, unplug the monitor and be sure the signal cable is disconnected. If you do not disconnect them, it may cause fire or electric shock.

If the monitor is not in use for a long period of time it is recommended that it is left unplugged to avoid accidents.

To disconnect the power cable or signal cable, always pull it by the plug. Never pull on the cable itself as this may cause fire or electric shock.

Pulling or inserting the plug with wet hands may cause electric shock.

Be sure the computer is strong enough to hold the weight of the monitor, otherwise, you may damage your computer.

The monitor is not designed to work for 24-hours continuously, do not use the monitor for 24-hours continuously.

OTHERS

To eliminate eye fatigue, do not operate the monitor against a bright background or in a dark room. For optimal viewing comfort, the monitor should be just below eye level and 40-60 cm (16-24 inches) away from your eyes. When using the monitor over a prolonged time, a ten minute break every hour is recommended as looking at the screen continuously can cause eye strain.

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BEFORE YOU OPERATE THE MONITOR

The following accessories are included in your package. Check to see if they are enclosed with the monitor. If anything is missing or damaged, please contact your local iiyama dealer or regional iiyama office.

- Power Cable*
- Audio Cable
- Safety Guide
- D-Sub Signal Cable
- Stand-Base
- Quick Start Guide
- DVI-D Signal Cable
- Cable Holder

* The rating of the Power Cable enclosed in 120V area is 10A/125V. If you are using a power supply higher than this rating, then a power cable with a rating of 10A/250V must be used. However, all guarantees and warranties are void for any problems or damage caused by a power cable not supplied by iiyama.

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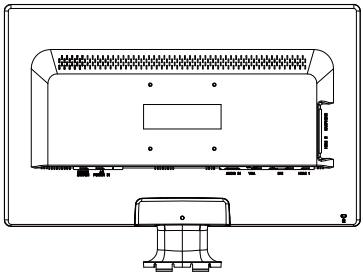
- Put the monitor on a stable surface. The monitor may cause injury or damage if it falls or is dropped.
- Do not give a strong impact to the monitor. It may cause damage.
- Unplug the monitor before removal or installation to avoid electric shock or damage.

<Installation>

A Put a piece of soft cloth on the table beforehand to prevent the monitor from being scratched. Lay the monitor flat on a table with front face down.

B Hold the monitor and push the Stand-Base until it clicks and is secure.

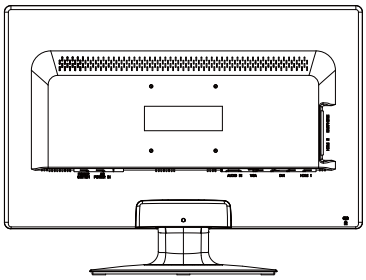


Stand-Base

<Removal>

A Put a piece of soft cloth on the table beforehand to prevent the monitor from being scratched. Lay the monitor flat on a table with front face down.

B Press and hold the hooks inside, and pull the Stand-Base.



Hooks

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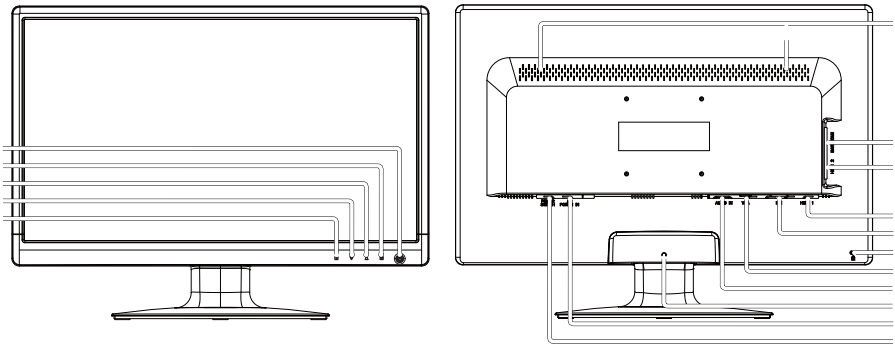

<Front> <Back>

① Power Switch (⏻) / Power Indicator
Blue: Normal operation
Orange: Power Management

② Select / Input select Button (2)

③ Scroll up / Audio Adjust Button (▲)

④ Scroll down / i-Style Color Button (▼)

⑤ Menu Button (1)

⑥ Speakers

⑦ Headphone Connector (EARPHONE)

⑧ HDMI Connector (HDMI2)

⑨ HDMI Connector (HDMI1)

⑩ DVI-D 24pin Connector (DVI)

⑪ Keyhole for Security Lock
You can fasten a security lock and cable to prevent the monitor from being removed without your permission.

⑫ D-SUB mini 15pin Connector (VGA)

⑬ Audio Connector (AUDIO IN)

⑭ Installation hole of Cable Holder

⑮ AC Connector (AC POWER IN)

⑯ Main Power Switch (POWER SWITCH)

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■ Signal Timing
Change to the desired signal timing listed on page 24: COMPLIANT TIMING.

■ Windows 95/98/2000/Me/XP/Vista/7 Plug & Play
The iiyama LCD monitor complies with DDC2B of VESA standard. The Plug & Play function runs on Windows 95/98/2000/Me/XP/Vista/7 by connecting the monitor to DDC2B compliant computer with the Signal Cable supplied.
For installation on Windows 95/98/2000/Me/XP: The monitor Information File for iiyama monitors may be necessary for your computer and obtained via the Internet, using the address:

http://www.iiyama.com

- For additional information on how to download the driver for your touch screen monitor, please access the internet site noted above.
- Monitor Drivers are not required in most cases for Macintosh or Unix operating systems. For further information, please contact your computer dealer first for advice.

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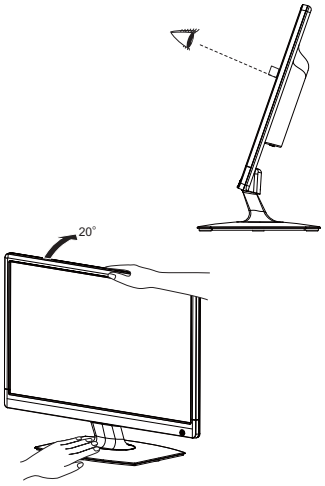
- For optimal viewing it is recommended to look at the full face of the monitor.
- Hold the stand so that the monitor does not topple when you change the monitor's angle.
- You are able to adjust the monitor's angle up to 20° upward.
- In order to ensure a healthy and relaxed body position when using the monitor at visual display workstations, it is recommended that the adjusted tilt angle should not exceed 10 degrees. Adjust the monitor's angle to your own preference.
    - Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.
    - Careful attention is required not to catch your fingers or hands when you change the angle.
    - Do not tilt the post beyond 20 degrees except when repacking the monitor in its box.

      To do so may cause the monitor to fall over and break.



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Auto Image Adjust

Only Analog Input

Adjustment Item	Problem / Option	Button to Press
Auto Image Adjust *	Adjust H. / V. Position, Clock and Phase automatically.	

* For best results, use the Auto Image Adjust in conjunction with the adjustment pattern. See page 17 for SCREEN ADJUSTMENTS.

You can skip the Menu items and display an adjustment scale directly by using the following button operations.

- Auto Image Adjust: Pressing and holding of the ▼ Button for about 2 seconds when the Menu is not displayed.

Contrast/Brightness

Adjustment Item	Problem / Option		Button to Press
Contrast *[3]	Too dull Too intense		
Brightness *[1,2,3]	Too dark Too bright		
ACR *[2,3]	Off	Typical Contrast Ratio	
	On	Increased Contrast Ratio	
ECO Mode *[3]	Off	Normal	
	1	Brightness of back-light is reduced.	
	2	Brightness of back-light is reduced more than 1.	
	3	Brightness of back-light is reduced more than 2.	
OD	Off/1/2/3/4/5 It will improve the gray level response time of the LCD panel. A higher level results in a faster response time.		

*[1] Adjust the Brightness when you are using the monitor in a dark room and feel the screen is too bright. Can not select when ACR is On.

*[2] Brightness and ACR can not enable the same time when ECO Mode is on.

*[3] Contrast, Brightness, ACR and ECO Mode adjustments are disabled when i-Style Color is activated.

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Color Adjust

Adjustment Item	Problem / Option		Button to Press
Cool	Bluish white		
Normal	Reddish white		
Warm	Greenish white		
User Color	Red	Too weak Too strong	▲ ▼
	Green		
	Blue		
i-Style Color	Standard	For general windows environment and monitor default setting.	
	Game	For PC game environment.	
	Cinema	For movie and video environment.	
	Scenery	For displaying outdoor scenery images	
	Text	For text editing and viewing in a word processing environment.	

You can skip the Menu items and display an adjustment scale directly by using the following button operations.

● i-Style Color: Press the ▼ Button when the Menu is not displayed.

Information

Displays information regarding the current input signal coming from the graphic card in your computer.

See your graphic card user guide for more information about changing the resolution and refresh.

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Manual Image Adjust

Adjustment Item	Problem / Option		Button to Press
Clock *1	Too narrow Too wide		
H./V. Position *1,2	H. Position	Too left Too right	
	V. Position	Too low Too high	
Phase *1	To correct flickering text or lines		
Sharpness	Adjust the picture quality at resolutions of less 1920 x 1080. You can change the picture quality (3 steps).		
Video Mode Adjust	Full Screen	Full screen display	
	Over Screen	Expansion display	
	Aspect Ratio *3	Expansion display of Aspect	

*1 Only Analog Input.

*2 See page 17 for SCREEN ADJUSTMENTS.

*3 It can display in the center of the screen with a 4:3, 5:4 or 16:10 aspect ratio when input video resolution is 4:3, 5:4 or 16:10.

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● Lock Mode

1. The OSD lock will be activated by pressing the front buttons [1] and ▲ for about 10 seconds. If you try to access the OSD by pressing any of the buttons [1], ▼, ▲ and [2], message "OSD Locked" will appear on the screen.
2. The OSD lock will be deactivated by pressing the front buttons [1] and ▲ again for 10 seconds.

1. The power switch lock will be activated by pressing the front buttons [1] and ▼ for 10 seconds. Locking the power switch means that won't be able to turn off the Monitor while the power switch is locked. If presses the power switch massage "Power Button Locked" will appear on the screen.
2. The power switch lock will be deactivated by pressing the front buttons [1] and ▼ again for about 10 seconds.

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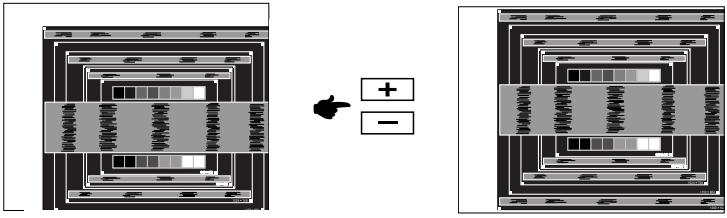
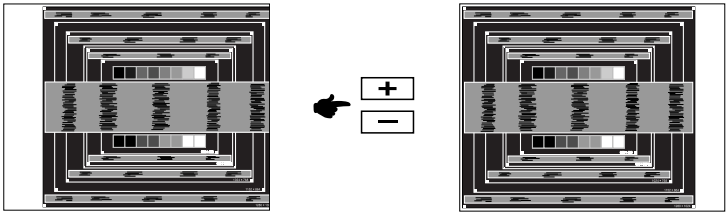
C **Pressing and holding of the ▼ Button for about 2 seconds. (Auto Image Adjust)**

D **Adjust the image manually by following procedure below when the screen has a flicker or blur, or the picture does not fit in the display area after performing the Auto Image Adjust.**

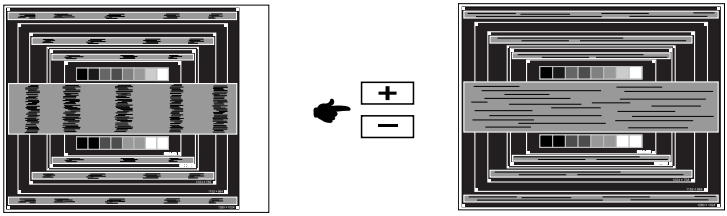
E **Adjust the V.Position so that the top and bottom of the picture frame will fit to the display area.**



F **1) Adjust the H.Position so that the left side of the picture frame will move to the left edge of the display area.**



2) Stretch the right side of the picture frame to the right edge of the display area by adjusting the Clock.



- When the left side of the picture frame moves apart from the left edge of the display area during the Clock adjustment, adjust steps 1) and 2).
- Another way to make the Clock adjustment is to correct the vertical wavy lines in the zebra pattern.
- The picture may flicker during the Clock, H.Position and V.Position adjustment.
- In case the picture frame is bigger or smaller than the data display area after the Clock adjustment, repeat steps from C.

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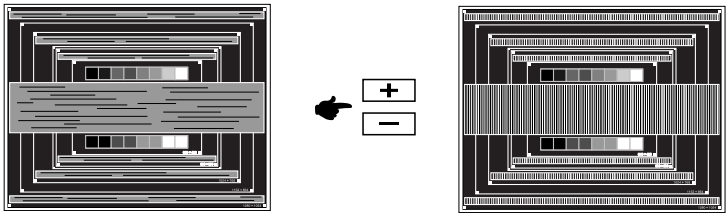
G **Adjust the Phase to correct horizontal wavy noise, flicker or blur in the zebra pattern.**



- In case the strong flicker or blurs remain on a part of the screen, repeat steps F and G because the Clock may not be adjusted correctly. If the flicker or blurs still remain, set the refresh rate of computer to low (60Hz) and repeat steps from C again.
- Adjust the H.Position after the Phase adjustment if the horizontal position moves during the adjustment.

H **Adjust the Brightness and Color to get the desired picture after you complete the Clock and Phase adjustments.**

Put back your favorite wallpaper.

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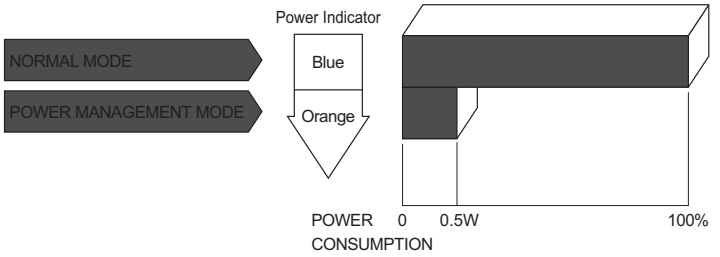
The power management feature of this product complies with power saving requirement of ENERGY STAR® and VESA DPMS. When activated, it automatically reduces unnecessary power consumption of the monitor when your computer is not in use.
To use the feature, the monitor needs to be connected to a VESA DPMS compliant computer. There is a power management step the monitor takes as described below. The power management function, including any timer settings is configured by the operating system. Check your operating system manual for information on how this can be configured.

■ Power Management Mode

When the H-sync signal / V-sync signal / H and V sync signals from the computer are off, the monitor enters into Power Management Mode which reduces the power consumption to less than 0.5W. The screen becomes dark, and the power indicator turns to orange. From Power Management Mode, the image reappears in several seconds when either the keyboard or the mouse are touched again.



- Even when using the power management mode, the monitor consumes electricity. Turn off the Power Switch whenever the monitor is not in use, during the night and weekends, to avoid unnecessary power consumption.
- It is possible that the video signal from the computer may be on while the H or V sync signal is missing. In this instance, the POWER MANAGEMENT feature may not work properly.

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TROUBLE SHOOTING

If the monitor fails to operate correctly, please follow the steps below for a possible solution.

1. Perform the adjustments described in OPERATING THE MONITOR, depending on the problem you have. If the monitor does not get a picture, skip to 2.
2. Consult the following items if you cannot find an appropriate adjustment item in OPERATING THE MONITOR or if the problem persists.
3. If you are experiencing a problem which is not described below or you cannot correct the problem, discontinue using the monitor and contact your dealer or iiyama service center for further assistance.

- ☐ The Power Cable is firmly seated in the socket.
- ☐ The Power Switch is turned ON.
- ☐ The Main Power Switch is turned ON.
- ☐ The AC socket is live. Please check with another piece of equipment.

- ☐ If the blank screen saver is in active mode, touch the keyboard or the mouse.
- ☐ Increase the Contrast and/or Brightness.
- ☐ The computer is ON.
- ☐ The Signal Cable is properly connected.
- ☐ The signal timing of the computer is within the specification of the monitor.

- ☐ If the monitor is in power management mode, touch the keyboard or the mouse.
- ☐ The computer is ON.
- ☐ The Signal Cable is properly connected.
- ☐ The signal timing of the computer is within the specification of the monitor.

- ☐ The Signal Cable is properly connected.
- ☐ The signal timing of the computer is within the specification of the monitor.
- ☐ The video output level of the computer is within the specification of the monitor.

- ☐ The signal timing of the computer is within the specification of the monitor.

- ☐ The video output level of the computer is within the specification of the monitor.

- ☐ The power voltage is within the specification of the monitor.
- ☐ The signal timing of the computer is within the specification of the monitor.

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- ☐ The audio equipment (computer etc.) is ON.
- ☐ The Audio Cable is properly connected.
- ☐ The Volume is turned up.
- ☐ The Mute is OFF.
- ☐ The audio output level of the audio equipment is within the specification of the monitor.
- ☐ The audio output level of the audio equipment is within the specification of the monitor.
- ☐ The Audio Cable is properly connected.

RECYCLING INFORMATION

For better environment protection please don't dispose your monitor.
Please visit our web site: www.iiyama.com/recycle for monitor recycling.

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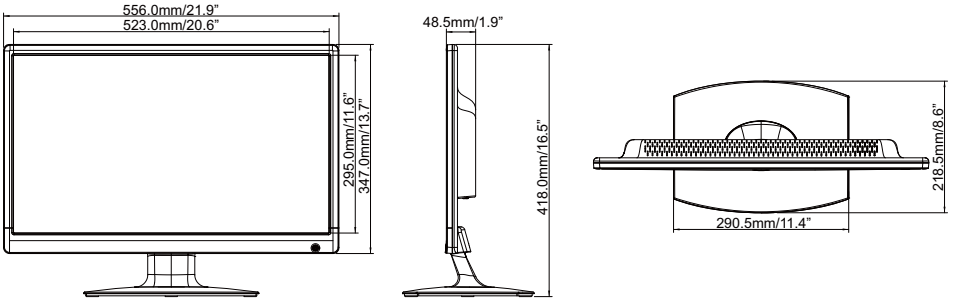

PC Input

Video Mode			Horizontal Frequency	Vertical Frequency	Dot Clock	
VESA	VGA	640 × 480	31.469kHz	59.940Hz	25.175MHz	
			37.500kHz	75.000Hz	31.500MHz	
			37.861kHz	72.809Hz	31.500MHz	
	SVGA	800 × 600	35.156kHz	56.250Hz	36.000MHz	
			37.879kHz	60.317Hz	40.000MHz	
			46.875kHz	75.000Hz	49.500MHz	
	XGA	1024 × 768	48.363kHz	60.004Hz	65.000MHz	
			56.476kHz	70.069Hz	75.000MHz	
			60.023kHz	75.029Hz	78.750MHz	
	SXGA	1280 × 1024	63.981kHz	60.020Hz	108.000MHz	
			79.976kHz	75.025Hz	135.000MHz	
	WXGA+	1440 × 900	55.935kHz	59.887Hz	106.500MHz	
			70.635kHz	74.984Hz	136.750MHz	
	WSXGA+	1680 × 1050	65.290kHz	60.000Hz	146.250MHz	
	Full HD	1920 × 1080	66.590kHz	59.930Hz	138.500MHz	
PC9801		640 × 400	24.827kHz	56.424Hz	21.053MHz	*

***** Digital input is not compliant.

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